

**Mathematics Day for Teachers**  
**Tuesday 29<sup>th</sup> November, 9.30am-3.15pm**

Research leads us to believe that maths teachers find mathematics stimulating and energising, yet in our day to day professional lives we have few opportunities to 'step back' from the pressures of the classroom and re-connect with the subject that we teach. This day is intended to give mathematics teachers the opportunity to think about mathematics.

Four speakers will talk in an accessible way about a mathematical topic with the primary aim of stimulating interest and discussion. *Come and be stimulated and energised by your colleagues, learn some new maths, and return to the classroom with renewed enthusiasm!*

The venue is the University of Auckland Conference Centre, 22 Symonds Street. (Parking should be easy as it is not term time). A charge of \$20 to cover refreshments and lunch is payable on the day.

9.30 am Arrive and coffee

10am **Smart Brains ... why some find mathematics simple and stimulating while others find it impossibly difficult.**  
Professor David Tall, Warwick University, will talk on this topic and lead a discussion into the issues raised.

11am Break

11.15am **Picking the angles, or why America's Cup yachts don't sail straight downwind**  
Dr David McIntyre, Orion Systems International, will discuss how concepts such as components of vectors, trigonometry and polar coordinates are applied to the problem of choosing the best direction to steer a yacht.

12.15pm Lunch

1pm **Topology**  
Dr Sina Greenwood, Auckland University will talk about knots and links

2pm Break

2.15pm **Can You Keep A Secret?**  
Dr Paul Bonnington, Auckland University will talk about the use of prime numbers in coding and encryption.

3.15pm End

For further information, or to book a place, please contact Hannah Bartholomew:  
09 373 7599 X84239 or by email at [h.bartholomew@auckland.ac.nz](mailto:h.bartholomew@auckland.ac.nz).